

SECRET

SC No. 04557/58 a

30 July 1958

NSA Declassification/Release Instructions on File

MEMORANDUM FOR: Chief, Support Staff, OCI

**SUBJECT : Transmittal of Memorandum to ATIC
via AFCIN**

1. It is requested that the attached memorandum be forwarded to AFCIN for transmittal to ATIC, Wright-Patterson Air Force Base.

2. A copy of the memorandum for ATIC is attached for Headquarters, USAF.

FOR THE ASSISTANT DIRECTOR, RESEARCH AND REPORTS:

25X1A9a

**Acting Chief, Control Staff
Office of Research and Reports**

Attachments:

Orig & 2 cc memorandum to ATIC from AD/RR dated 30 July 58
SC No. 04557/58

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Approved For Release 2001/08/27 : CIA-RDP70T00666R000100070011,6

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**CENTRAL INTELLIGENCE AGENCY
CODEWORD ROUTING SHEET**

TO		INITIALS	DATE
1	AD/RR		
2			
3			
4			
5			
6			
FROM		INITIALS	DATE
1			
2			
3			

_____ Approval

_____ Information

_____ Signature

_____ Action

_____ Direct Reply

_____ Return

_____ Comment

_____ Preparation of Reply

_____ Dispatch

_____ Concurrence

_____ Recommendation

_____ File

REMARKS:

APPENDED DOCUMENT CONTAINS CODEWORD MATERIAL

Appended document contains classified information within
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TOP SECRET EIDER

SC NO. 04559/58

30 JUL 1958

MEMORANDUM FOR: Colonel John S. Eriksen
Commander, Air Technical Intelligence Center
Wright-Patterson Air Force Base

THRU: Deputy Chief of Staff, Intelligence
Headquarters, USAF
Washington 25, D.C.

SUBJECT: Comments on Information Handling System

25X1D1a 1. This will acknowledge General Watson's memorandum of 14 May 1958 forwarding a duplicate set of IBM cards on [REDACTED] and related materials concerning the Information Handling System now under development at the Air Technical Intelligence Center. We shall be happy to receive the IBM cards and machine tabulation relating to [REDACTED] when they are completed.

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25X1D1a 2. We concur in the basic objective of the system you have under development, which is to organize and present by machine methods the essential external and textual information from large numbers of individual COMINT messages bearing on a given topic or group of related topics. In this manner, it is possible to utilize machine listings in lieu of the original source documents for the substantive analysis of certain types of intelligence problems involving quantities of data which might be unmanageable if controlled by other methods. This technique appears especially valuable when applied to complex intelligence problems involving Soviet weapons systems, where our analyses must frequently be

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3. Our preliminary study of the material furnished to us by ATIC indicates that your system represents a considerable advance toward this basic objective over any machine data control system presently employed in CIA or known to us elsewhere in the intelligence community. Several of our branches will therefore be studying in greater detail the potentialities of the system and its applicability to similar intelligence problems in other fields.

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4. While the first sample listings which we made from the [REDACTED] cards did not reveal any major problems, we did encounter certain difficulties in machine manipulation of two of the principal fields. The Agency's data control specialists also foresee some problems which might affect the flexibility of the system if applied in its present form to very large volumes of information. Since it is my understanding that these specialists are in frequent contact with their counterparts at AFIC, I would propose, if it is agreeable to you, that further discussions of the technical aspects of the system be conducted by them during some mutually convenient future meeting.

5. I would like to express again my appreciation for AFIC's cooperation in making these materials available to the Central Intelligence Agency.

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[REDACTED]
OTTO E. WIRTH
Assistant Director
Research and Reports

Distribution:

Orig & 1 - Addressee
1 - Hdqrs./USAF
1 - SR/OCR
1 - Ch/E
1 - St/C
1 - D/I
2 - AD/RR
2 - I/GM

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ORR/D/I/GM: [REDACTED] acr/4291 (24 Jul 58)

- 2 -

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AD/RR

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According to [REDACTED], this
received in Special Register because
of the attachment. At present
SR [REDACTED] and I/GM are
discussing what the hell this letter
means - [REDACTED]

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CODEWORD ROUTING SHEET

TO		INITIALS	DATE
1	Chief, D/I	<i>EMP</i>	<i>25 July</i>
2	Chief, E	<i>ESB</i>	<i>29 July</i>
3	Chief, St/C	<i>ESB</i>	<i>30 July</i>
4	AD/RR		
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FROM		INITIALS	DATE
1	Chief, I/GM	<i>RSQ</i>	<i>24 July</i>
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☐ Approval ☐ Information ☐ Signature
☐ Action ☐ Direct Reply ☐ Return
☐ Comment ☐ Preparation of Reply ☐ Dispatch
☐ Concurrence ☐ Recommendation ☐ File

REMARKS:

This letter has been revised and expanded in accordance with AD/RR's discussion with Chief, St/C. The letter has been coordinated with I/AR and OER/SR.

RSQ

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MEMO ROUTING SLIP		NEVER USE FOR APPROVALS, DISAPPROVALS, CONCURRENCES, OR SIMILAR ACTIONS	
1 NAME OR TITLE Dr. Otto E. Guthe	INITIALS		CIRCULATE
ORGANIZATION AND LOCATION CIA	DATE		COORDINATION
2			FILE
			INFORMATION
3			NECESSARY ACTION
			NOTE AND RETURN
4			SEE ME
			SIGNATURE
REMARKS Attached memorandum from ATIC, subject: Information Handling System Data Request, is forwarded for your information and consideration.			
FROM NAME OR TITLE <i>George J. Keithley</i> GEORGE J. KEITHLEY, Lt Colonel, USAF		DATE 20 May 58	
ORGANIZATION AND LOCATION AFCIN-1A3		TELEPHONE 76095	

CENTRAL INTELLIGENCE AGENCY
CODEWORD ROUTING SHEET

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FROM		INITIALS	DATE
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<input type="checkbox"/> Approval	<input type="checkbox"/> Information	<input type="checkbox"/> Signature
<input type="checkbox"/> Action	<input type="checkbox"/> Direct Reply	<input type="checkbox"/> Return
<input type="checkbox"/> Comment	<input type="checkbox"/> Preparation of Reply	<input type="checkbox"/> Dispatch
<input type="checkbox"/> Concurrence	<input type="checkbox"/> Recommendation	<input type="checkbox"/> File

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CENTRAL INTELLIGENCE AGENCY
CODEWORD ROUTING SHEET

TO		INITIALS	DATE
1	<i>I/GM</i> 25X1A9a		
2	<i>attn:</i> [REDACTED]		
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6			
FROM		INITIALS	DATE
1	<i>st/c/rr</i>	<i>nb</i>	<i>26 May 58</i>
2			
3			

☐ Approval ☐ Information ☐ Signature
☐ Action ☐ Direct Reply ☐ Return
☐ Comment ☐ Preparation of Reply ☐ Dispatch
☐ Concurrence ☐ Recommendation ☐ File

REMARKS:

Ref. [REDACTED] By [REDACTED]
Mr. [REDACTED]
28 May

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AIR TECHNICAL INTELLIGENCE CENTER
UNITED STATES AIR FORCE
WRIGHT-PATTERSON AIR FORCE BASE
OHIO

14 MAY 1958

MEMORANDUM FOR: Central Intelligence Agency
ATTN: Dr. Otto E. Guthe
Assistant Director, Research and Reports
Washington 25, D. C.

THRU: Deputy Chief of Staff, Intelligence
Headquarters, USAF
Washington 25, D. C.

SUBJECT: Information Handling System Data Request

1. In reply to your memorandum of 15 April 1958, the Air Technical Intelligence Center is pleased to forward for further considerations the requested material related to our Information Handling System currently under development.

2. Included with the inclosures to this communication is a complete set of duplicate cards concerning [REDACTED] which have been coded to the new system; arrangement for this group is by document series order and includes a tabulation of that particular sort. These cards have been reproduced to place references to [REDACTED] the associated personality and the corresponding "From, To and About" (FTA) column into Fields 5, 4 and 3 respectively. The normal encoding process places the organization fields and related associations in either the left or right hand grouping as indicated by the text. A duplicate card is then prepared placing the organization of prime interest in the left of the two fielding groups for convenience of machine search. The resultant tabulation in this form has also proven to be of added convenience for further analysis. Liberty has been taken to substitute duplicate IBM cards in lieu of further tabulations in order that your organization may also experience the operational "feel" of this system.

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3. Inclosures also include a copy each of the Topic Code in numeric sequence, Action Code in numeric sequence and the Document Series Code in alpha sequence by code letters which were used to encode the information contained on the cards discussed in paragraph 2. The "A" format is shown both on an IBM card and an enlargement for better readability. Operational Handbook No. 115-S-1, by the contractor Haller, Raymond and Brown,

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Memorandum for CIA, Subj: Info Handling System Data Request

dated 1 November 1957, contains the entry specifics of coding to this system and has been previously distributed to your organization. A copy of Chapter 2 entitled "Extracting, Encoding and IBM Card Preparation" has been included with the inclosures for your immediate reference. 1/

25X1D1a 4. It is regretted that [REDACTED] is not at present in a completed form as the machine operations of punching, duplication and tabulation are not completed. The pending move of this equipment to our new facility will also further delay that processing. Estimates are that delivery of these IBM cards in document series from together with a tabulation similar to that of the [REDACTED] information can be forwarded to your office within 4 to 6 weeks.

5. It is hoped that this manner of presentation will meet with your approval and your comments of this system after due study will be of major interest to all concerned.

*no formal
in time*

Harold E. Watson
HAROLD E. WATSON
Major General, USAF
Commander

9 Incls

1. 1 ea cy Chapter 2
2. 1 ea cy AFCIN-4F4,
Series Code
3. 1 ea cy AFCIN-4F4,
Action Code
4. 1 ea cy AFCIN-4F4,
Topic Code
5. [REDACTED]
Airfield Code
6. 1 ea cy AFCIN-4F4,
IBM Card Format A
7. 1 ea cy AFCIN-4F4,
IBM Card Format A, enl.
8. 1 ea duplicate set IBM
Cards, (7,924) [REDACTED]
[REDACTED] doc. numeric series
sequence
9. 2 ea cys, IBM mach. tab.
of Incl No. 8.

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which because of the size has not been duplicated. All supplements to this code, contained in inclosure 5, have not been coordinated with NSA.

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15 APR 1958

MEMORANDUM FOR: Major General Harold E. Watson
Commander, Air Technical Intelligence Center
Wright-Patterson Air Force Base

THROUGH: Deputy Chief of Staff, Intelligence
Headquarters, USAF
Washington 25, D.C.

SUBJECT: Appreciation for Specialized Briefing

1. I am most appreciative of your cooperation in response to my proposal of 3 February 1958 suggesting a briefing, for selected CIA personnel here, on an Information Handling System under development by the Air Technical Intelligence Center. It is my understanding that the briefing by members of your staff was conducted with skill and effectiveness. Major Roger J. Croseclose and Captain Davis B. Potter are to be commended for their carefully prepared presentation.

2. Much interest in ATIC's machine method of handling data has been generated as a result of the briefing. Although it is understood that this machine system has so far been confined to

25X1D1a [REDACTED] it is apparent from the briefing that the method has potentialities of considerable general interest to the intelligence community. Several of our branches feel it would be profitable to examine the system in more detail than was possible from the briefing. Accordingly, if it appears feasible to you, I would appreciate receiving duplicate machine runs arranged according to each of the five major categories ("invariants") which have been established for the two plants, together with an explanation or key to the codes used.

3. May I take this opportunity to extend my congratulations on your recent promotion to the rank of Major General.

25X1A [REDACTED]
OTTO E. GUTHRIE
Assistant Director
Research and Reports

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THIS DOCUMENT CONTAINS CODE WORD MATERIAL

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